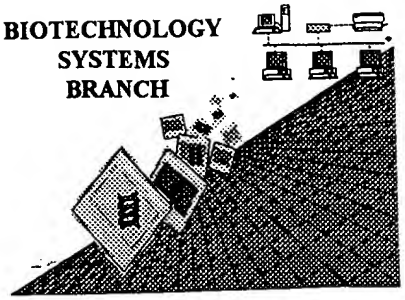
1050

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/617,099

Source: OIPE

Date Processed by STIC: 7/27/2000

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**

2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR FURTHER INFORMATION, PLEASE TELEPHONE MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 3.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

http://www.uspto.gov/web/offices/pac/checker

OIPE

RAW SEQUENCE LISTING DATE: 07/27/2000
PATENT APPLICATION: US/09/617,099 TIME: 09:41:10

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF3\07272000\I617099.raw

Does Not Comply
Corrected Diskette Needed

3 <110> APPLICANT: Seino, Susumu; JCR Pharmaceuticals Co., Ltd.
5 <120> TITLE OF INVENTION: Protein Rim2
7 <130> FILE REFERENCE: GP35
C--> 8 <140> CURRENT APPLICATION NUMBER: US/09/617,099
C--> 8 <141> CURRENT FILING DATE: 2000-07-14
E--> 8 <160> NUMBER OF SEQ ID: 4

05 (p.5)

ERRORED SEQUENCES

(p.5)

10 <210> SEQ ID NO: 1
11 <211> LENGTH: 1590
12 <212> TYPE: PRT
13 <213> ORGANISM: Mus musculus
15 <400> SEQUENCE: 1

```
16 Met Ser Ala Pro Leu Gly Pro Arg Gly Arg Pro Ala Pro Thr Pro Ala
17  1               5                  10                  15
19 Ala Ser Gln Pro Pro Pro Gln Pro Glu Met Pro Asp Leu Ser His Leu
20              20                  25                  30
22 Thr Glu Glu Glu Arg Lys Ile Ile Leu Ala Val Met Asp Arg Gln Lys
23          35                  40                  45
25 Lys Glu Glu Glu Lys Glu Gln Ser Val Leu Lys Ile Lys Glu Glu His
26      50                  55                  60
28 Lys Ala Gln Pro Thr Gln Trp Phe Pro Phe Ser Gly Ile Thr Glu Leu
29  65                  70                  75                  80
31 Val Asn Asn Val Leu Gln Pro Gln Gln Lys Gln Pro Asn Glu Lys Glu
32                  85                  90                  95
34 Pro Gln Thr Lys Leu His Gln Gln Phe Glu Met Tyr Lys Glu Gln Val
35              100                 105                 110
37 Lys Lys Met Gly Glu Glu Ser Gln Gln Gln Gln Glu Gln Lys Gly Asp
38          115                 120                 125
40 Ala Pro Thr Cys Gly Ile Cys His Lys Thr Lys Phe Ala Asp Gly Cys
41      130                 135                 140
43 Gly His Asn Cys Ser Tyr Cys Gln Thr Lys Phe Cys Ala Arg Cys Gly
44 145                 150                 155                 160
46 Gly Arg Val Ser Leu Arg Ser Asn Lys Val Met Trp Val Cys Asn Leu
47                  165                 170                 175
49 Cys Arg Lys Gln Gln Glu Ile Leu Thr Lys Ser Gly Ala Trp Phe Tyr
50              180                 185                 190
52 Asn Ser Gly Ser Asn Thr Leu Gln Gln Pro Asp Gln Lys Val Pro Arg
53          195                 200                 205
55 Gly Leu Arg Asn Glu Glu Ala Pro Gln Glu Lys Lys Ala Lys Leu His
56      210                 215                 220
58 Glu Gln Pro Gln Phe Gln Gly Ala Pro Gly Asp Leu Ser Val Pro Ala
59 225                 230                 235                 240
61 Val Glu Lys Gly Arg Ala His Gly Leu Thr Arg Gln Asp Thr Ile Lys
62                  245                 250                 255
```

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PATENT APPLICATION: US/09/617,099 TIME: 09:41:10

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF3\07272000\I617099.raw

```
64 Asn Gly Ser Gly Val Lys His Gln Ile Ala Ser Asp Met Pro Ser Asp
65              260                 265                 270
67 Arg Lys Arg Ser Pro Ser Val Ser Arg Asp Gln Asn Arg Arg Tyr Glu
68          275                 280                 285
70 Gln Ser Glu Glu Arg Glu Asp Tyr Ser Gln Tyr Val Pro Ser Asp Gly
71      290                 295                 300
73 Thr Met Pro Arg Ser Pro Ser Asp Tyr Ala Asp Arg Arg Ser Gln Arg
74 305                 310                 315                 320
76 Glu Pro Gln Phe Tyr Glu Glu Pro Gly His Leu Asn Tyr Arg Asp Ser
77                  325                 330                 335
79 Asn Arg Arg Gly His Arg His Ser Lys Glu Tyr Ile Val Asp Asp Glu
80              340                 345                 350
82 Asp Val Glu Ser Arg Asp Glu Tyr Glu Arg Gln Arg Arg Glu Glu Glu
83          355                 360                 365
85 Tyr Gln Ala Arg Tyr Arg Ser Asp Pro Asn Leu Ala Arg Tyr Pro Val
86      370                 375                 380
88 Lys Pro Gln Pro Tyr Glu Glu Gln Met Arg Ile His Ala Glu Val Ser
89 385                 390                 395                 400
91 Arg Ala Arg His Glu Arg Arg His Ser Asp Val Ser Leu Ala Asn Ala
92                  405                 410                 415
94 Glu Leu Glu Asp Ser Arg Ile Ser Leu Leu Arg Met Asp Arg Pro Ser
95              420                 425                 430
97 Arg Gln Arg Ser Val Ser Glu Arg Arg Ala Ala Met Glu Asn Gln Arg
98          435                 440                 445
100 Ser Tyr Ser Met Glu Arg Thr Arg Glu Ala Gln Gly Gln Ser Ser Tyr
101     450                 455                 460
103 Pro Gln Arg Thr Ser Asn His Ser Pro Pro Thr Pro Arg Arg Ser Pro
104 465                 470                 475                 480
106 Ile Pro Leu Asp Arg Pro Asp Met Arg Arg Ala Asp Ser Leu Arg Lys
107                 485                 490                 495
109 Gln His His Leu Asp Pro Ser Ser Ala Val Arg Lys Thr Lys Arg Glu
110             500                 505                 510
112 Lys Met Glu Thr Met Leu Arg Asn Asp Ser Leu Ser Ser Asp Gln Ser
113         515                 520                 525
115 Glu Ser Val Arg Pro Pro Pro Pro Arg Pro His Lys Ser Lys Lys Gly
116     530                 535                 540
118 Gly Lys Met Arg Gln Val Ser Leu Ser Ser Ser Glu Glu Glu Leu Ala
119 545                 550                 555                 560
121 Ser Thr Pro Glu Tyr Thr Ser Cys Asp Asp Val Glu Leu Glu Ser Glu
122                 565                 570                 575
124 Ser Val Ser Glu Lys Gly Asp Ser Gln Lys Gly Lys Arg Lys Thr Ser
125             580                 585                 590
127 Glu Gln Gly Val Leu Ser Asp Ser Asn Thr Arg Ser Glu Arg Gln Lys
128         595                 600                 605
130 Lys Arg Met Tyr Tyr Gly Gly His Ser Leu Glu Glu Asp Leu Glu Trp
131     610                 615                 620
133 Ser Glu Pro Gln Ile Lys Asp Ser Gly Val Asp Thr Cys Ser Ser Thr
134 625                 630                 635                 640
136 Thr Leu Asn Glu Glu His Ser His Ser Asp Lys His Pro Val Thr Trp
```

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PATENT APPLICATION: US/09/617,099 TIME: 09:41:10

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF3\07272000\I617099.raw

```
137                 645                 650                 655
139 Gln Pro Ser Lys Asp Gly Asp Arg Leu Ile Gly Arg Ile Leu Leu Asn
140             660                 665                 670
142 Lys Arg Leu Lys Asp Gly Ser Val Pro Arg Asp Ser Gly Ala Met Leu
143         675                 680                 685
145 Gly Leu Lys Val Val Gly Gly Lys Met Thr Glu Ser Gly Arg Leu Cys
146     690                 695                 700
148 Ala Phe Ile Thr Lys Val Lys Lys Gly Ser Leu Ala Asp Thr Val Gly
149 705                 710                 715                 720
151 His Leu Arg Pro Gly Asp Glu Val Leu Glu Trp Asn Gly Arg Leu Leu
152                 725                 730                 735
154 Gln Gly Ala Thr Phe Glu Glu Val Tyr Asn Ile Ile Leu Glu Ser Lys
155             740                 745                 750
157 Pro Glu Pro Gln Val Glu Leu Val Val Ser Arg Pro Ile Gly Asp Ile
158         755                 760                 765
160 Pro Arg Ile Pro Asp Ser Thr His Ala Gln Leu Glu Ser Ser Ser Ser
161     770                 775                 780
163 Ser Phe Glu Ser Gln Lys Met Asp Arg Pro Ser Ile Ser Val Thr Ser
164 785                 790                 795                 800
166 Pro Met Ser Pro Gly Met Leu Arg Asp Val Pro Gln Phe Leu Ser Gly
167                 805                 810                 815
169 Gln Leu Ser Ile Lys Leu Trp Phe Asp Lys Val Gly His Gln Leu Ile
170             820                 825                 830
172 Val Thr Ile Leu Gly Ala Lys Asp Leu Pro Ser Arg Glu Asp Gly Arg
173         835                 840                 845
175 Pro Arg Asn Pro Tyr Val Lys Ile Tyr Phe Leu Pro Asp Arg Ser Asp
176     850                 855                 860
178 Lys Asn Lys Arg Arg Thr Lys Thr Val Lys Lys Thr Leu Glu Pro Lys
179 865                 870                 875                 880
181 Trp Asn Gln Thr Phe Ile Tyr Ser Pro Val His Arg Arg Glu Phe Arg
182                 885                 890                 895
184 Glu Arg Met Leu Glu Ile Thr Leu Trp Asp Gln Ala Arg Val Arg Glu
185             900                 905                 910
187 Glu Glu Ser Glu Phe Leu Gly Glu Ile Leu Ile Glu Leu Glu Thr Ala
188         915                 920                 925
190 Leu Leu Asp Asp Glu Pro His Trp Tyr Lys Leu Gln Thr His Asp Val
191     930                 935                 940
193 Ser Ser Leu Pro Leu Pro Arg Pro Ser Pro Tyr Leu Pro Arg Arg Gln
194 945                 950                 955                 960
196 Leu His Gly Glu Ser Pro Thr Arg Arg Leu Gln Arg Ser Lys Arg Ile
197                 965                 970                 975
199 Ser Asp Ser Glu Val Ser Asp Tyr Asp Cys Glu Asp Gly Val Gly Val
200             980                 985                 990
201 Val Ser Asp Tyr Arg His Asn Gly Arg Asp Leu Gln Ser Ser Thr Leu
203         995                 1000                1005
205 Ser Val Pro Glu Gln Val Met Ser Ser Asn His Cys Ser Pro Ser Gly
206     1010                1015                1020
208 Ser Pro His Arg Val Asp Val Ile Gly Arg Thr Arg Ser Trp Ser Pro
209 1025                1030                1035                1040
```

RAW SEQUENCE LISTING DATE: 07/27/2000
PATENT APPLICATION: US/09/617,099 TIME: 09:41:10

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF3\07272000\I617099.raw

```
211 Ser Ala Pro Pro Pro Gln Arg Asn Val Glu Gln Gly His Arg Gly Thr
212                 1045                1050                1055
214 Arg Ala Thr Gly His Tyr Asn Thr Ile Ser Arg Met Asp Arg His Arg
215             1060                1065                1070
217 Val Met Asp Asp His Tyr Ser Ser Asp Arg Asp Arg Asp Cys Glu Ala
218         1075                1080                1085
220 Ala Asp Arg Gln Pro Tyr His Arg Ser Arg Ser Thr Glu Gln Arg Pro
221     1090                1095                1100
223 Leu Leu Glu Arg Thr Thr Thr Arg Ser Arg Ser Ser Glu Arg Pro Asp
224 1105                1110                1115                1120
226 Thr Asn Leu Met Arg Ser Met Pro Ser Leu Met Thr Gly Arg Ser Ala
227                 1125                1130                1135
229 Pro Pro Ser Pro Ala Leu Ser Arg Ser His Pro Arg Thr Gly Ser Val
230             1140                1145                1150
232 Gln Thr Ser Pro Ser Ser Thr Pro Gly Thr Gly Arg Arg Gly Arg Gln
233         1155                1160                1165
235 Leu Pro Gln Leu Pro Pro Lys Gly Thr Leu Glu Arg Ser Ala Met Asp
236     1170                1175                1180
238 Ile Glu Glu Arg Asn Arg Gln Met Lys Leu Asn Lys Tyr Lys Gln Val
239 1185                1190                1195                1200
241 Ala Gly Ser Asp Pro Arg Leu Glu Gln Asp Tyr His Ser Lys Tyr Arg
242                 1205                1210                1215
244 Ser Gly Trp Asp Pro His Arg Gly Ala Asp Thr Val Ser Thr Lys Ser
245             1220                1225                1230
247 Ser Asp Ser Asp Val Ser Asp Val Ser Ala Val Ser Arg Thr Ser Ser
248         1235                1240                1245
250 Ala Ser Arg Phe Ser Ser Thr Ser Tyr Met Ser Val Gln Ser Glu Arg
251     1250                1255                1260
253 Pro Arg Gly Asn Arg Lys Ile Ser Val Phe Thr Ser Lys Met Gln Asn
254 1265                1270                1275                1280
256 Arg Gln Met Gly Val Ser Gly Lys Asn Leu Thr Lys Ser Thr Ser Ile
257                 1285                1290                1295
259 Ser Gly Asp Met Cys Ser Leu Glu Lys Asn Asp Gly Ser Gln Ser Asp
260             1300                1305                1310
262 Thr Ala Val Gly Ala Leu Gly Thr Ser Gly Lys Lys Arg Arg Ser Ser
263         1315                1320                1325
265 Ile Gly Ala Lys Met Val Ala Ile Val Gly Leu Ser Arg Lys Ser Arg
266     1330                1335                1340
268 Ser Ala Ser Gln Leu Ser Gln Thr Glu Gly Gly Gly Lys Lys Leu Arg
269 1345                1350                1355                1360
271 Ser Thr Val Gln Arg Ser Thr Glu Thr Gly Leu Ala Val Glu Met Arg
272                 1365                1370                1375
274 Asn Trp Met Thr Arg Gln Ala Ser Arg Glu Ser Thr Asp Gly Ser Met
275             1380                1385                1390
277 Asn Ser Tyr Ser Ser Glu Gly Asn Leu Ile Phe Pro Gly Val Arg Leu
278         1395                1400                1405
280 Ala Ser Asp Ser Gln Phe Ser Asp Phe Leu Asp Gly Leu Gly Pro Ala
281     1410                1415                1420
283 Gln Leu Val Gly Arg Gln Thr Leu Ala Thr Pro Ala Met Gly Asp Ile
```

RAW SEQUENCE LISTING DATE: 07/27/2000
PATENT APPLICATION: US/09/617,099 TIME: 09:41:10

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF3\07272000\I617099.raw

```
     284 1425                1430                1435                1440
     286 Gln Val Gly Met Met Asp Lys Lys Gly Gln Leu Glu Val Glu Ile Ile
     287                 1445                1450                1455
     289 Arg Ala Arg Gly Leu Val Val Lys Pro Gly Ser Lys Thr Leu Pro Ala
     290             1460                1465                1470
     292 Pro Tyr Val Lys Val Tyr Leu Leu Asp Asn Gly Val Cys Ile Ala Lys
E--> 293         1475                1780 1480           1485
     295 Lys Lys Thr Lys Val Ala Arg Lys Thr Leu Glu Pro Leu Tyr Gln Gln
     296     1490                1495                1500
     298 Leu Leu Ser Phe Glu Glu Ser Pro Gln Gly Arg Val Leu Gln Ile Ile
     299 1505                1510                1515                1520
     301 Val Trp Gly Asp Tyr Gly Arg Met Asp His Lys Ser Phe Met Gly Val
     302                 1525                1530                1535
     304 Ala Gln Ile Leu Leu Asp Glu Leu Glu Leu Ser Asn Met Val Ile Gly
     305             1540                1545                1550
     307 Trp Phe Lys Leu Phe Pro Pro Ser Ser Leu Val Asp Pro Thr Ser Ala
     308         1555                1560                1565
     310 Pro Leu Thr Arg Arg Ala Ser Gln Ser Ser Leu Glu Ser Ser Thr Gly
     311     1570                1575                1580
     313 Pro Ser Tyr Ser Arg Ser
     314 1585                1590
     744 <210> SEQ ID NO: 5
     745 <211> LENGTH: 1611 last sequence in file
     746 <212> TYPE: PRT
     747 <213> ORGANISM: Mus musculus
     749 <400> SEQUENCE: 5
     750 Gln Met Ser His Arg Leu Glu Pro Arg Arg Pro
E--> 751   1               5                  ~~10~~ 10
```

VERIFICATION SUMMARY DATE: 07/27/2000
PATENT APPLICATION: US/09/617,099 TIME: 09:41:11

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF3\07272000\I617099.raw

L:8 M:270 C: Current Application Number differs, Replaced Current Application No
L:8 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:8 M:283 W: Missing Blank Line separator, <160> field identifier
L:293 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:696 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:2
L:751 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5
L:751 M:252 E: No. of Seq. differs, <211>LENGTH:Input:16 Found:11 SEQ:5
L:8 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (4) Counted (5)